Microcassette Recorder Operating Instructions

Model No. RN-405 RN-305 RN-202





The illustrations show RN-405

Panasonic Consumer Electronics Company, Division of Matsushita Electric Corporation of **America**

Before connecting, operating or adjusting this

product, please read theze instructions completely. Please keep this manual for future reference.

One Panasonic Way Secaucus, New Jersey 07094 http://www.panagonic.com

Panasonic Sales Company, Division of Matsushită Electric of Puerto Rico, Inc. ("PSC")

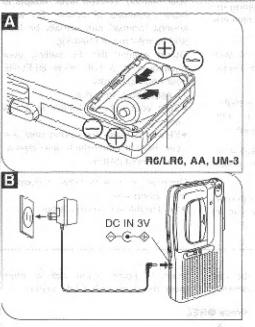
Ave. 65 de Infanteria, Km. 9.5 San Gabriel Industrial Park, Carolina, Puerto Rico 00985

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RQT5405-P F0100KB0

Power source



Dry cell batteries 2

Use two R6/LR6, AA UM-3 (not included) bat-

Press in and down towards the minus end.

Battery removal

Press the ⊕ side towards the ⊖ battery terminal and lift up.

AC power operation [3]

Use Panasonic AC adaptor RP-AC31 (not includ-

 When not in use, disconnect the AC adaptor from the AC power outlet.

Specifications

Power requirement

Battery: DC3V

(two R6/LR6, AA, UM-3

batteries)

DC IN 3 V with

Panasonic AC adaptor RP-AC31 (not included)

Frequency response

500-3500 Hz

Speaker: 3.6 sm (113/2 ")

Tape speed 1.2 cm/s (19/32 lps) 2.4 cm/s (19/46 ips)

Track system 2 track monaural

recording and playback

(RN-405 only) Jack: Input:

MIC: 0.25 mV (200-600 Q)

Output: MONIT (8 Q)

Dimensions(W×H×D) 58.0×117.0×23.7 mm

(2%%"×4%"×15%") Mass (without batteries) RN-202 ; 130 g (4.6 oz.)

: 130 g (4.6 ōz.)

; 134 g (4.7 oz.)

Play time:

(When used in hold mode, at 25°C (77°F) and on a flat and stable surface)

Panasonic alkaline dry cell batteries;

RN-202 RN-305

Recording: About 14-5 hours Playback: About 9 hours

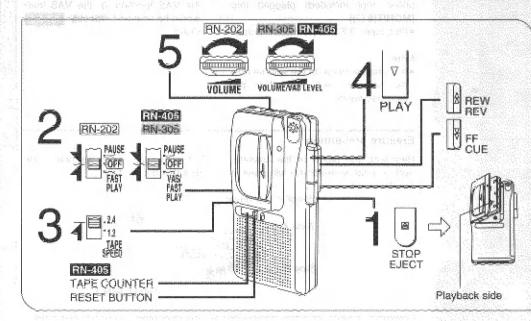
Recording: About 13.5 hours Playback: About 9 hours

The play time may be less depending on the operating conditions.

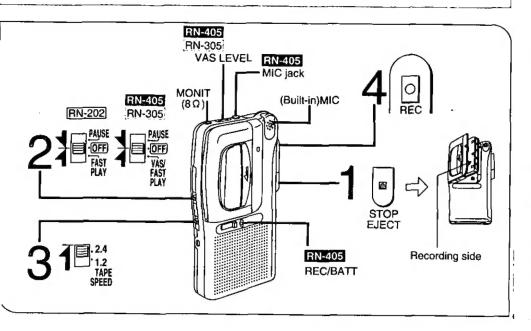
Specifications are subject to change without no-

Mass and dimensions are approximate.

To playback tapes



Recording



lasic operation

Function	Operation	
Stop	Press [4] STOP, EJECT].	
Temporary stop	Set [PAUSE] to PAUSE. To resume recording set it to OFF.	
Recording for a long time	Set [TAPE SPEED] to [1.2].	

Program time (with RT-60 MC microcassette tape)

t [1.2]: 1 hour on one side

t [2.4]: 30 minutes on one side

Note:

- Use a tape with tabs in place.
- The recording level is automatically adjusted.
- The built-in microphone is omnidirectical, so that recording is available in every direction.

Basic operation

Function	Operation
Stop	During playback, press [STOP, EJECT].
Fast forward or rewind	In the stop mode, press [▶▶ FF, CUE] (Fast forward) or [◀◀ REW. REV] (Rewind).
Temporary stop	Set [PAUSE] to PAUSE. To resume playback set it to OFF.
To play faster than usual	Set [FAST PLAY] to FAST PLAY.

Cue and review

Sound can be monitored at a high speed as long as [▶▶FF, CUE] (cue) or [◀◀REW, REV] (review) is held down during playback.

When the button is released, normal playback w start.

Note:

Set [TAPE SPEED] to the same setting as you used for recording.

Troubleshooting Guide



Before requesting service for this unit, check the chart below for a possible cause of the problem you are experiencing Some simple checks or a minor adjustment on your part ma eliminate the problem and restore proper operation.

eliminate the problem and restore proper operation.

If you are in doubt about some of the check points, or if the remedies indicated in the chart do not solve the problem, refe to the directory of Authorized Service Centers (enclosed with this unit) to locate a convenient service center, or consult you dealer for instructions.

For detailed instructions, contact an authorized servicenter 1-800-211-7262 or web site (http://www.panasonic.com).

PROBLEM

CHECKPOINT

No operations.

Have the batteries been installed with their polarities (⊕,
 ⊕) reversed?

•No sounds.

• A gritty noise is heard.

•Is the earphone plug firmly connected to [MONIT (8 Ω)]?
•Is the plug dirty? (Wipe away the dirt from the plug.)

Cannot hear sound-too noisy.

Separate the unit from mobile phones.

No recording.

Have the tape's accidental erasure prevention tabs been broken out?

OTHER

To record with the VAS (Voice Activated System) function

(RN-305 RN-405 Only)

The sound is recorded automatically, so there is no tape waste.

To use VAS function, select [VAS] in step 2 of Recording and adjust [VAS LEVEL).

- •No sound is recorded at the "0" position.
- After using VAS function, set [VAS] to OFF
- 1-3: If you wish to record only the louder sounds.
- 4-7: If you wish to record normal level sounds.
- 8-10: If you wish to record lower levels of sound than usual.

Silent auto-stop (RN-405 Only)

When the tape comes to its end during recording or playback, the tape stops moving and the power is turned off. After that, be sure to press [STOP EJECT].

To record through the external microphone (RN-405 Only)

Plug the external monaural microphone (not included) into [MIC]. Plug type: 3.5 mm (1/2 in.) monaural

denser microphone without built-in supply.

The built-in microphone will be automatically disconnected.

Note:

·Use a dynamic microphone or a condenser microphone with built-in power supply. Do not use a con-

Monitoring

The sound can be heard with earphone (not included) plugged into [MONIT(8 Ω)].

•Plug type: 3.5 mm (1/s in.) monaural

 Any change made to the volume during recording will not affect the recorded sound.

 Do not adjust the volume during with the VAS function, or the VAS level would be change (RN-305 RN-405 Only).

Erasure prevention

Removing the tab(s) of the cassette (with a small screwdriver) will prevent accidental erasure.

To record again, cover the hole of the tab with adhesive tape.

Small screw driver Side A Tab for side A

Follow up recording

Recording can be started during playback by simply pressing [GREC].

Quick review

To listen to the sound you have recorded, press and hold [◄<REW, REV].

When the button is released, playback will start.

Tape counter and reset button (RN-405 Only)

The digits return to "000" when the reset button is pressed. The digits advance with the tape to provide a ref-

erence to quickly find a desired portion of tape.

RN-405 Only) REC/BATT check indicator (

[REC/BATT] check indicator will light during recording.

Also the tape speed will slow down, the sound is distorted, and the volume will decrease.

When the batteries are weak

[REC/BATT] check indicator will become dim or turn off during recording.

vicing to qualified personnel only.

SERVICE

PRODUCT

Do not attempt to remove the cover(s) or repair the unit yourself. Refer ser-

Product information

For product service, product information or assistance with product opera-

tion, refer to the servicenter directory.

User memo:

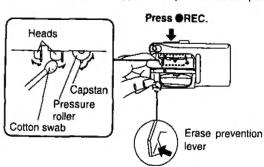
DATE OF PURCHASE _____ DEALER NAME _ DEALER ADDRESS TELEPHONE NUMBER

MAINTE-NANCE

Head care

To ensure good sound quality, be sure to clean the head after approximately

every 10 hours of use with a cotton swab dampend with a little alcohol.



CAUTION

- Avoid using or placing this unit near sources of heat.
- Do not leave it in an automobile exposed to direct sunlight for a long period of time with doors and windows closed.
- To avoid product damage, do not expose this product to rain, water or other liquids.
- These speakers do not have magnetic shielding. Do not place them near televisions, personal computers or other devices easily influenced by magnetism.

Listening caution





what's around you.

Do not play your headphones or earphones at a high volume. Hearing experts advise against continuous extended play.

If you experience a ringing in your ears, reduce volume or discontinue

Do not use while operating a motorized vehicle. It may create a traffic hazard and is illegal in many areas.

You should use extreme caution or temporarily discontinue use in potentially hazardous situations.

Even if your headphones or earphones are the open-air type designed to let you hear outside sounds, don't turn up the volume so high that you can't hear

Sound can be deceiving. Over time your hearing "comfort level" adapts to higher volumes of sound. So what sounds "normal" can actually be loud and harmful to your hearing.

Guard against this by setting your equipment at a safe level BEFORE your hearing adapts.

To establish a safe level:

- ·Start your volume control at a low
- Slowly increase the sound until you can hear it comfortably and clearly, and without distortion.

Once you have established a comfortable sound level:

Set the dial and leave it there.

Panasonic Consumer Electronics Company, Division of Matsushita **Electric Corporation of America** One Panasonic Way, Secaucus, New Jersey 07094

Panasonic Limited Warranty

Panasonic Consumer Electronics Company or Panasonic Sales Company (collectively referred to as "The warrantor") will repair this product with new or refurbished parts, free of charge, in the U.S.A. or Puerto Rico from the date of original purchase in the event of a defect in materials or workmanship as follows:

For one (1) year-Radio, Clock Radio, Radio with Tape Player or Recorder, Speaker

For ten (10) days-Batteries-(when applicable)-New rechargeable batteries in exchange for defective rechargeable batteries. Non-rechargeable batteries are not warranted.

For assistance in the U.S.A. in obtaining repairs contact:

Panasonic Services Company Panasonic PLUS Department 20421 B4th Avenue South Kent, WA 98032 Phone: 1-800-833-9626 FAX: 1-800-237-9080

If repair is needed, during the warranty period the purchaser will be required to furnish a sales receipt/proof of purchase indicating date of purchase.

Also, the purchaser will be responsible for shipping the unit to the above address. This warranty is extended only to the original purchaser.

For assistance in Puerto Rico contact, Panasonic Sales Company at the address or telephone number above.

Panasonic Sales Company, Division of Mateushita Electric of Puerto Rico, inc. ("PSC") Ave. 65 de Infanteria, Km. 9.5 San Gabriel Industrial Park Carolina, Puerto Rico 00985

This warranty only covers failures due to detects in materials or workmanship which occur during normal use and does not cover damage which occurs in shipment or failures which are caused by products not supplied by the warrantor or failures which result from accident, misuse, abuse, neglect, mishandling, misapplication, faulty installation, set-up adjustments, improper maintenance, alteration, improper antenna, Inadequate signal pick-up, maladjustment of consumer controls, modification, line power surge, or commercial use of the product, or damage that is attributable to acts of God, or service by anyone other than a PASC Factory Servicenter.

LIMITS AND EXCLUSIONS

There are no express warranties except as listed above.

THE WARRANTOR SHALL NOT BE LIABLE FOR INCIDENTAL OR CONSEQUENTIAL DAMAGES RESULTING FROM THE USE OF THIS PRODUCT, OR ARISING OUT OF ANY BREACH OF THIS WARRANTY, INCLUDING WITHOUT LIMITATION, DAMAGE TO TAPES, RECORDS OR DISCS, ALL EXPRESS AND IMPLIED WARRANTIES, INCLUDING THE WARRANTIES OF MER-CHANTABILITY, ARE LIMITED TO THE APPLICABLE WARRANTY PERIOD SET FORTH ABOVE. Some states do not allow the exclusion or limitation of incidental or consequential damages, or limitations on how long an implied warranty lasts, so the above exclusions or limitations may not apply to you.

This warranty gives you specific legal rights and you may also have other rights which vary from state to state.

If a problem with this product develops during or after the warranty period, you may contact your dealer or Panasonic PLUS Department. If the problem is not handled to your satisfaction, then write to the Customer Satisfaction Center at the company address above or call toll free 1-800-211-7262.

If you ship the product

Carefully pack and send it prepaid, adequately insured and preferably in the original carton. Attach a letter, detailing the complaint, to the outside of the carton.

Do NOT send the product to the Executive or Regional Sales offices. They are NOT equipped to make repairs.

BATTERIES

- Align the poles (⊕ and ⊝) properly when inserting the batteries.
- Do not mix old and new batteries or different types of batteries.
- Do not recharge ordinary dry cell bat-
- Remove the batteries if the unit is not to be used for a long time.
- . Do not use the batteries if the covering has been peeled off.

Mishandling of batteries can cause electrolyte leakage which can damage items the fluid contacts and may cause

If electrolyte leaks from the batteries. consult your dealer. Wash thoroughly with water if electrolyte comes in contact with any part of your body.

•If rechargeable batteries are to be used, rechargeable batteries manufactured by Panasonic are recommended.

	Customer's Record	
Model No.	Dealer'sName	
Serial No.		
Code	Dealer's	
No	Address	
Date		
of		
Purchase		

RQT5405